

REMARKS/ARGUMENTS

Applicant thanks the Examiner for the Interview held on March 10, 2008 and for indicating that the proposed claim 1 is allowable.

Claims 1-15 are pending. By this amendment, claims 1 and 10-12 are amended and claim 8 is cancelled. Support for these claim amendments can be found at paragraphs [0042-43] and [0053] of the specification. No new matter is introduced. Prompt allowance of the claims is respectfully requested.

35 U.S.C. § 112 Rejections

Claims 1-15 are rejected under 35 U.S.C. § 112. Claims 1 and 12 have been amended to remove the objected phrase. Withdrawal of the rejection is respectfully requested.

35 U.S.C. § 101 Rejections

Claims 1-15 are rejected under 35 U.S.C. § 101. This rejection is respectfully traversed.

Claims 1 and 12 are amended to recite a computer-implemented method for designing a customized filter for communication systems having nearly ideal responses in both the frequency domain and the time domain. The computer-implemented method chooses a first and second sets of complex frequency poles, and normalizes the first and second sets of complex frequency poles to obtain a new proportional complex pole constellation by: determining weighting factors by varying the weighting factors until a computed stopband gain and a passband phase both meet system requirements of nearly ideal responses, and multiplying said first and second sets of complex frequency poles by the weighting factors to calculate the new proportional complex pole constellation. The new proportional complex pole constellation defines the customized filter that has nearly ideal responses in both gain and phase or gain and time, which filter is a concrete, useful, and tangible result. *See State Street Bank v. Signature Financial Group, Inc.*, 47 U.S.P.Q.2d 1596, 1601 (Fed. Cir. 1998) (holding that a price for a financial product is a concrete, useful, and tangible result). Therefore, as agreed upon during the March 10, 2008 Interview, claims 1 and 12 (and their respective dependent claims) contain statutory subject matter under 35 U.S.C. § 101. Withdrawal of the rejection of claims 1-15 under 35 U.S.C. §101 is respectfully requested.

In view of the above remarks, Applicant respectfully submits that the application is in condition for allowance. Prompt examination and allowance are respectfully requested.

Should the Examiner believe that anything further is desired in order to place the application in even better condition for allowance, the Examiner is invited to contact Applicant's undersigned representative at the telephone number listed below.

Respectfully submitted,

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